

PARAMUS Contractor Line - PCL Series

COMPACT COMMERCIAL POWER AMPLIFIERS



Features

- Five models available from 160 to 450 watts per channel; 4 ohms or 50 / 70 / 100 V
- Compact 2 RU enclosure
- Phoenix style input connectors for easy installation
- Phoenix style connector block for all output modes
- Bridge mode operation on all multi channel models
- Switch selectable hi-pass filter at either 50 Hz or 300 Hz
- Independent rear level controls for each channel
- Front-to-rear cooling
- Multitude of protections

With the new PARAMUS Contractor Line DYNACORD completes its wide power amplifier range in the installation realm.

In particular, the power amplifiers are designed for demanding sound reinforcement, background music / paging and public address system installations. Long term reliability and flexibility is guaranteed.

The five models in the PCL series range from 160 to 450 watts of power per channel in a variety of system designs.

PCL 1125T, PCL 1225T and PCL 1240T are equipped with high performance output transformers and also provide floating outputs for 50 V, 70 V and 100 V installations in addition to low-impedance outputs at 8 / 4 ohms. PCL 1245 und PCL 1415 are low-impedance amplifiers without output transformers.

Premium Phoenix style screw-lock connectors ensure a more secure connection of audio signal and speaker cables. The independent rear level controls allow setting the according power amp channel's overall amplification. All PCL power amps feature different hi-pass filters with switch selectable cut-off frequency to attenuate unwanted low-frequency signals.

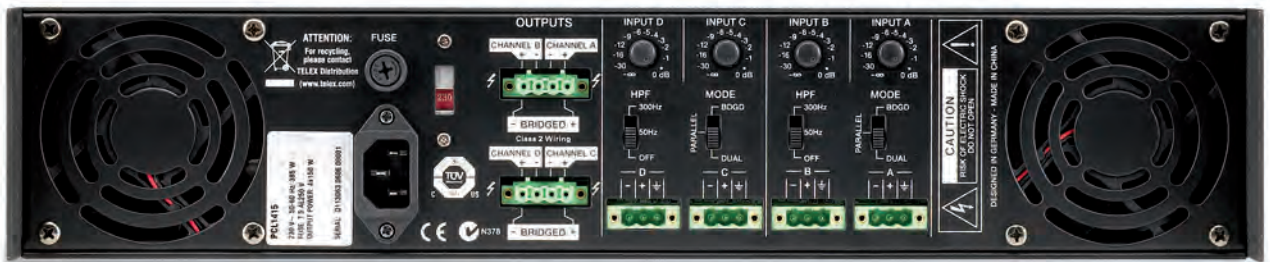
All models in the PARAMUS series provide several protection circuits (short circuit, thermal overload, power up delay, peak current limiters, among others), which not only prevent the power amplifier itself from being damaged but can protect the connected loudspeaker systems as well.

All PCL models offer excellent head-room for a wide dynamic range on music signals.

They also have voltage limiters to protect the loudspeaker outputs against high distortion.

The multistage cooling fan guarantees absolute reliability.





Technical Specifications

	PCL 1245		PCL 1415		PCL 1240T			PCL 1225T				PCL 1125T					
	8Ω	4Ω	8Ω	4Ω	8Ω	4Ω	100V	70V	50V	8Ω	4Ω	100V	70V	50V	100V	70V	50V
Load Impedance																	
Maximum midband output power THD=1%, 1kHz	300W	480W	100W	160W	215W	430W	430W	430W	430W	135W	270W	270W	270W	270W	270W	270W	270W
Rated output power (*rated load) THD<0.2%, 20Hz ... 20kHz	225W	450W	75W	150W	200W	400W	400W	400W	400W	125W	250W	250W	250W	250W	250W	250W	250W
Max. single channel output power Dynamic-Headroom, IHF-A	280W	560W	120W	200W	260W	520W	520W	500W	480W	160W	320W	300W	290W	290W	300W	290W	290W
Maximum bridged output power THD=1%, 1kHz	900W	-	315W	-	860W	-	-	-	-	540W	-	-	-	-	-	-	-
Maximum RMS voltage swing THD=1%, 1kHz	44.7V		32.1V		44.7V	117V	82V	59V	59V	35.4V	117V	82V	59V	59V	117V	82V	59V
Voltage gain at 1kHz	34.3dB		30dB		34.3dB	42.2dB	39.1dB	36.2dB	36.2dB	32.2dB	42.2dB	39.1dB	36.2dB	36.2dB	42.2dB	39.1dB	36.2dB
Slew rate at 1kHz	28V/μs		16V/μs		25V/μs	65V/μs	46V/μs	34V/μs	34V/μs	18V/μs	61V/μs	41V/μs	29V/μs	29V/μs	61V/μs	41V/μs	29V/μs
Power consumption at 1/2 maximum output power, lim. pink	-	530W	-	385W	-	545W	-	-	-	-	330W	-	-	-	170W	-	-
Input sensitivity at rated output power or voltage, 1kHz	0dBu (775mV)		0dBu (775mV)		0dBu (775mV)					0dBu (775mV)					0dBu (775mV)		
THD at rated output power MBW=80kHz, 1kHz	<0.1%		<0.1%		<0.1%		<0.1%			<0.1%		<0.1%			<0.1%		
IMD-SMPTE 60Hz, 7kHz	<0.1%		<0.1%		<0.1%		<0.1%			<0.1%		<0.1%			<0.1%		
DIM30 3.15kHz, 15kHz	<0.1%		<0.1%		<0.1%		<0.1%			<0.1%		<0.1%			<0.1%		
Crosstalk ref. 1kHz, at 10% rated output power	<-75dB		<-75dB		<-75dB					<-75dB							
Frequency response -1dB, ref. 1kHz	<10Hz - 40kHz		<10Hz - 40kHz		65Hz - 40kHz					65Hz - 40kHz					65Hz - 40kHz		
Power bandwidth THD=1%, ref. 1kHz, half power	<10Hz ... >50kHz		<10Hz ... >50kHz		45Hz ... >20kHz					45Hz ... >20kHz					45Hz ... >20kHz		
Input impedance 20Hz ... 20kHz, balanced	>20kΩ		>20kΩ		>20kΩ					>20kΩ					>20kΩ		
Damping factor at 100Hz / 1kHz, 4Ω	>250		>250		>250					>250							
Signal to noise ratio A-weighted	104dB		101dB		103dB					103dB					103dB		
Power requirements	120V, 230 V, 50Hz - 60Hz																
Protection	Audio limiters, high temperature, peak current limiters, turn-on delay																
Cooling	Front-to-rear																
Safety class	I																
Dimensions (W x H x D), mm	483 x 88 x 405 (2Ru)																
Weight	16.5kg (36.34lbs)		18kg (39.65lbs)		26kg (57.27lbs)					23.5kg (51.76lbs)					16.5kg (36.34lbs)		

Low impedance outputs: - min. rated load for single channel operation is 4Ω. 2Ω load is not recommended.
- min. rated load for bridged operation is 8Ω. 4Ω load is not recommended.
Isolated outputs: - min. rated load is rated load in column "Rated output power"

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